

**ABSTRACT**

The invention concerns a system wherein the spatial values ( $S_1$  to  $S_n$ ) of the physical quantity are represented by measurement pulses ( $I_1$  to  $I_n$ ) whereof the temporal ordering represents said values. The system comprises a plurality of processing units ( $U_1$  to  $U_n$ ) for processing said measurement pulses. They are arranged in at least one row and include each an output ( $SOR_1$  to  $SOR_n$ ) whereon, during successive processing cycles, a measurement pulse processed therein can be delivered to form the output signal ( $SU$ ) of the system. The invention is characterized in that each processing unit ( $U_1$  to  $U_n$ ) comprises inhibiting means ( $BI$ ) for, in other units of the row and during a given processing cycle, inhibiting the passage to the outputs ( $SOR_1$  to  $SOR_n$ ) of said other units respective measurement pulses processed therein and hence preventing them from forming the output signal ( $SU$ ), if said measurement impulses are temporally ordered later in the given processing cycle than the one processed in the unit concerned.